

Title (en)

POST-MOLD COOLING METHOD AND APPARATUS WITH CYCLONE COOLING EFFECT

Title (de)

VERFAHREN UND VORRICHTUNG ZUR KÜHLUNG NACH DER FORMUNG MIT ZYKLONKÜHLEFFEKT

Title (fr)

PROCÉDÉ ET APPAREIL DE REFROIDISSEMENT POST-MOULAGE AVEC EFFET DE REFROIDISSEMENT DE CYCLONE

Publication

EP 3045286 B1 20180523 (EN)

Application

EP 16000065 A 20160113

Priority

US 201562102764 P 20150113

Abstract (en)

[origin: EP3045286A1] A post-molding cooling apparatus directs a stream of cooling fluid (50) against a concave interior surface of a molded article (10) to cool the molded article. The apparatus includes an outlet (40, 100, 140, 150) positioned to direct the stream of cooling fluid (50) into an open end of the molded article (10). The interior surface of the molded article (10) is concave. The outlet (40, 100, 140, 150) is configured to direct the stream of cooling fluid (50) in a helical direction such that at least a portion of the concave interior surface of the molded article (10) acts as a curved surface relative to a direction of flow of the stream of cooling fluid to create turbulent flow of the stream of cooling fluid against the concave interior surface of the molded article along a length of the concave interior surface from the open end of the molded article toward a closed end of the molded article.

IPC 8 full level

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CPC (source: CN EP KR US)

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